

Claims

1. A machining tool for chip removal, a milling tool in particular, having a holder (10) wherein there is provided a tool carrier (12) for a cutting element (14) which has a machining part (16) and a fastening part (18), characterized in that the fastening part (18) has a base part (20) which may be inserted into the tool carrier (12) in a receiving position (22) and which when turned into the locking position (26) extends under at least one holding projection (26) in the tool carrier (12) in order thereby to be usable for metal cutting with the cutting element (14).
2. The tool as claimed in claim 1, wherein the tool carrier (12) on the end side has a receiving channel (30) which extends transversely to the longitudinal axis (28) of the holder (10) and which may be penetrated by at least one locking piece (32) of the base part (20), and wherein the receiving channel (30) on the edge side is bordered by the respective holding projection (26) under which the respective locking piece (32) may extend in the locking position (24).
3. The tool as claimed in claim 2, wherein the receiving channel (30) on the end side leads into a receiving cone (34) which widens toward the exterior and which may be brought into contact with a correspondingly configured centering cone (36) of the fastening part (18) in the locking position (24) of the cutting element (14).
4. The tool as claimed in claim 3, wherein the centering cone (36) is adjoined by the machining part (16) with at least one machining edge (38), preferably a triple-edged cutting plate (40), and wherein between the centering cone (36) and the machining edge (38) there is a connecting part (42) which is pulled in the longitudinal axis (28) of the

holder (10) in the locking position (24) of the cutting element (14) against the outer circumferential edge (46) of the receiving cone (34).

5. The tool as claimed in one of claims 2 to 4, wherein on the base part (20) there are two locking pieces (32) which are diametrically opposite one another and wherein, located on the free end of the fastening part (18), the locking pieces are connected to the centering cone (36) which widens toward exterior by way of a fastening shaft (48).
6. The tool as claimed in one of claims 2 to 5, wherein the respective locking piece (32) on its side adjacent to the centering cone (36) is provided with a bevel (50) which slopes down in the direction of the free end of the fastening part (18).
7. The tool as claimed in one of claims 2 to 6, wherein in the interior (52) of the tool carrier (12) assigned to each locking piece (32) there is at least one part of a thread (54) with a lead beginning on the holding projection (26), which lead is oriented in the direction of the inside wall (56) of the tool carrier (12), which wall is at least partially closed on the end side.
8. The tool as claimed in one of claims 5 to 7, wherein one of the two locking pieces (32) is designed to be radially shorter than the other and wherein the slotted receiving channel (30) has one correspondingly longer and one shorter receiving flank (58).
9. The tool as claimed in one of claims 1 to 8, wherein the cutting element (14) after insertion into the tool carrier (12) may be moved against the direction of machining of the respective machining edge (38) into its locking position (24) and in the opposite direction of rotation into a receiving position (22).

10. The tool as claimed in one of claims 5 to 9, wherein the axial length of the fastening shaft (48) is at least greater than the length of the diametrically opposite holding projections (26), especially relative to their bevels (50), which length is measured in the longitudinal axis (28) of the holder (10).